

FAX BID REQUEST

BID NUMBER: 22314

STATE OF CONNECTICUT
ENVIRONMENTAL PROTECTION
141 SOUTH ST., UNIT D
WEST HARTFORD CT 06110-1963
PHONE: 860-723-7601
FAX: 860-953-8581

Vendor:	Installation Location: <u>State of CT D.E.P.</u> <u>West Hartford, Commerce Center</u> <u>141 South St. Unit D</u> <u>West Hartford, CT 06110</u>
Phone#	Fax#

DATE ISSUED	ISSUED BY Carl Chu	DATE/TIME BID REQUIRED 1/7/09 12:00 NOON	DATE REQUIRED	F.O.B.	TERMS
12/22/09	Please return bid to Fax: 860-953-8581	SEE INSTRUCTIONS BELOW	ASAP	ALL PRICES MUST BE F.O.B. DESTINATION	Net 45 days

ITEM NO.	DESCRIPTION	UNIT	QUAN	UNIT PRICE	TOTAL
1.	The State of Ct. D.E.P. is seeking bids for: VR2W Coded Acoustic Receiver, 69KHZ W/Bluetooth Code Mad-110.	EA.	6		
2.;	VR2WPC-PC Bluetooth Interface & VUE Software. (As Per Attached Specifications) Note: Vendors Must Fill Out W-9 & Agency Forms As Per Attached.	EA	1		
3.	Shipping (UPS)	EA.	1		

NOTE: DO NOT INCLUDE FEDERAL EXCISE TAXES OR CONNECTICUT SALES TAX, AS THE STATE IS EXEMPT.
BIDDER INSTRUCTIONS: PLEASE FAX YOUR QUOTE ON THIS FORM TO (860) 953-8581 AND MAIL FORM WITH ORIGINAL SIGNATURE TO THE ADDRESS IN THE UPPER RIGHT HAND CORNER. ALL PRICES MUST BE F.O.B. DESTINATION AND YOU MUST SIGN THIS FORM. THE STATE RESERVES THE RIGHT TO REJECT IN WHOLE OR IN PART ANY AND ALL BIDS. PLEASE NOTE BID DEADLINE. LATE BIDS WILL NOT BE ACCEPTED. THE UNDERSIGNED BIDDER AFFIRMS AND DECLARES: THAT THIS QUOTATION IS EXECUTED AND SIGNED BY SAID BIDDER WITH FULL KNOWLEDGE AND ACCEPTANCE OF THE PROVISIONS OF FORM SP-19 OF CURRENT ISSUE AND IN EFFECT ON THE DATE OF THIS BID ISSUE. FORM SP-19, ENTITLED STANDARD BID AND CONTRACT TERMS AND CONDITIONS TOGETHER WITH THE COMMODITY SPECIFICATIONS, PROPOSAL SCHEDULE, AND SPECIAL BID AND CONTRACT TERMS ARE MADE A PART OF THIS REQUEST FOR QUOTATION.

QUOTATION NO.	DATE :	VENDOR FEIN/SSN :	ARE YOU INCORPORATED? YES NO	DELIVERY AS REQ=D ABOVE (UNLESS NOTED HERE)
SIGNED :	TITLE :	TELEPHONE NO. AND EXTENSION :	CASH DISCOUNT:	PAYMENT TERMS:
PRINTED :			% DAYS	NET 45

Standard Bid and Contract Terms and Conditions - Page 1 of 4

All Invitations For Bids issued by the Department of Administrative Services, Procurement Services will bind Bidders to the terms and conditions listed below, unless specified otherwise in any individual Invitation For Bids.

Incorporated by reference into this contract are applicable provisions of the Connecticut General Statutes including but not limited to Sections 4a-50 through 4a-80 and applicable provisions of the Regulations of Connecticut State Agencies including but not limited to Sections 4a-52-1 through 4a-52-22.

The contractor agrees to comply with the statutes and regulations as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

Submission of Bids

1. Bids must be submitted on forms supplied by Procurement Services. Telephone or facsimile bids will not be accepted in response to an Invitation For Bids.
2. The time and date bids are to be opened is given in each bid issued. Bids received after the specified time and date of bid opening given in each bid proposal shall not be considered. Bid envelopes must clearly indicate the bid number as well as the date and time of the opening of the bid. The name and address of the Bidder should appear in the upper left hand corner of the envelope.
3. Incomplete bid forms may result in the rejection of the bid. Amendments to bids received by Procurement Services after the time specified for opening of bids, shall not be considered. An original and one copy of the proposal schedule shall be returned to Procurement Services. Bids shall be computer prepared, typewritten or handwritten in ink. Bids submitted in pencil shall be rejected. All bids shall be signed by a person duly authorized to sign bids on behalf of the bidder. Unsigned bids shall be rejected. Errors, alterations or corrections on both the original and copy of the proposal schedule to be returned must be initialed by the person signing the bid proposal or their authorized designee. In the event an authorized designee initials the correction, there must be written authorization from the person signing the bid proposal to the person initialing the erasure, alterations, or correction. Failure to do so shall result in rejection of bid for those items erased, altered or corrected and not initialed.
4. Conditional bids are subject to rejection in whole or in part. A conditional bid is defined as one which limits, modifies, expands or supplements any of the terms and conditions and/or specifications of the invitation for bids.
5. Alternate bids will not be considered. An alternate bid is defined as one which is submitted in addition to the bidders primary response to the invitation for bids.
6. Prices should be extended in decimal, not fraction, to be net, and shall include transportation and delivery charges fully prepaid by the Contractor to the destination specified in the bid, and subject only to cash discount.

7. Pursuant to Section 12-412 of the Connecticut General Statutes, the State of Connecticut is exempt from the payment of excise, transportation and sales taxes imposed by the Federal Government and/or the State. Such taxes must not be included in bid prices.

8. In the event of a discrepancy between the unit price and the extension, the unit price shall govern.

9. By its submission the Bidder represents that the bid is not made in connection with any other Bidder submitting a bid for the same commodity or commodities and is in all respects fair and without collusion or fraud.

10. All bids will be opened and read publicly and upon award are subject to public inspection.

Guaranty or Surety

11. Bid and or performance bonds may be required. Bonds must meet the following requirements: Corporation - must be signed by an official of the corporation above their official title and the corporate seal must be affixed over the signature; Firm or Partnership - must be signed by all the partners and indicate they are "doing business as"; Individual - must be signed by the owner and indicated as "Owner". The surety company executing the bond or countersigning must be licensed in Connecticut and the bond must be signed by an official of the surety company with the corporate seal affixed over their signature. Signatures of two witnesses for both the principal and the surety must appear on the bond. Power of attorney for the official signing the bond for the surety company must be submitted with the bond.

Samples

12. Accepted bid samples do not supersede specifications for quality unless sample is superior in quality. All deliveries shall have at least the same quality as the accepted bid sample.

13. Samples are furnished free of charge. Bidder must indicate if their return is desired, provided they have not been made useless by test. Samples may be held for comparison with deliveries.

Award

14. Award will be based on quality of the articles or services to be supplied, their conformance with specifications, delivery terms, price, administrative costs, past performance, and financial responsibility.

15. Procurement Services may reject any bidder in default of any prior contract or guilty of misrepresentation or any bidder with a member of its firm in default or guilty of misrepresentation.

16. Procurement Services may correct inaccurate awards resulting from clerical or administrative errors.

Contract

17. The existence of the contract shall be determined in accordance with the requirements set forth above. However, the award of the contract is not an order to ship.

18. The Contractor shall not assign or otherwise dispose of their contract or their right, title or interest, or their power to

Standard Bid and Contract Terms and Conditions - Page 2 of 4

execute such contract to any other person, firm or corporation without the prior written consent of Procurement Services.

19. Bidders have ten days after notice of award to refuse acceptance of the award; after ten days the award will be binding on the Contractor. If the Contractor refuses to accept the award within the ten day period, the award will be made to the next lowest responsible qualified bidder.

20. Failure of a Contractor to deliver commodities or perform services as specified will constitute authority for Procurement Services to purchase these commodities or services on the open market. The Contractor agrees to promptly reimburse the State for excess cost of these purchases. The purchases will be deducted from the contracted quantities.

21. Rejected commodities must be removed by the Contractor from State premises within 48 hours. Immediate removal may be required when safety or health issues are present.

22. Contractor agrees to: hold the State harmless from liability of any kind for the use of any copyright or uncopyrighted composition, secret process, patented or unpatented invention furnished or used in the performance of the contract; guarantee their products against defective material or workmanship; repair damages of any kind, for which they are responsible to the premises or equipment, to their own work or to the work of other contractors; obtain and pay for all licenses, permits, fees etc. and to give all notices and comply with all requirements of city or town in which the service is to be provided and to the State of Connecticut; to carry proper insurance to protect the State from loss.

23. Notwithstanding any provision or language in this contract to the contrary, the Commissioner may terminate this contract whenever he/she determines in his/her sole discretion that such termination is in the best interests of the State. Any such termination shall be effected by delivery to the Contractor of a written notice of termination. The notice of termination shall be sent by registered mail to the Contractor address furnished to the State for purposes of correspondence or by hand delivery. Upon receipt of such notice, the Contractor shall both immediately discontinue all services affected (unless the notice directs otherwise) and deliver to the State all data, drawings, specifications, reports, estimates, summaries, and such other information and materials as may have been accumulated by the Contractor in performing his duties under this contract, whether completed or in progress. All such documents, information, and materials shall become the property of the State. In the event of such termination, the Contractor shall be entitled to reasonable compensation as determined by the Commissioner of the Department of Administrative Services, however, no compensation for lost profits shall be allowed.

Delivery

24. All products and equipment delivered must be new unless otherwise stated in the bid specifications.

25. Delivery will be onto the specified State loading docks by the Contractor unless otherwise stated in the bid specifications.

26. Deliveries are subject to re-weighing on State sealed scales.

27. Payment terms are net 45 days after receipt of goods or invoice, whichever is later, unless otherwise specified.

28. Charges against a Contractor shall be deducted from current obligations. Money paid to the State by the Contractor shall be payable to the Treasurer, State of Connecticut.

Tangible Personal Property

29. (a) For any contract for provision of tangible personal property to the state entered into on or after the effective date of this section, each department head, as defined in section 4-5 of the general statutes, shall enter into an agreement with the contractor pursuant to which such contractor shall agree, on its own behalf and on behalf of each affiliate, as defined in subsection (d) of this section, of such contractor, for the term of the state contract, to collect and remit to the state on behalf of its customers any use tax due to the state under the provisions of chapter 219 of the general statutes for items of tangible personal property sold by the contractor or by any of its affiliates in the same manner as if the contractor and its affiliates were engaged in the business of selling tangible personal property for use in this state and had sufficient nexus with this state to be required to collect use tax due to the state. (b) The following provisions shall apply to and be made part of any agreement entered into pursuant to subsection (a) of this section: (1) The contractor and its affiliates are not liable for use tax not paid to them by a customer; (2) A customer's payment of a use tax to the contractor or its affiliates relieves the customer of liability for the use tax; (3) The contractor and its affiliates shall remit all use taxes they collect from customers on or before the due date specified in the agreement, which may not be later than the last day of the month next succeeding the end of a calendar quarter or other tax collection period during which the tax was collected; and (4) Any contractor or affiliate who fails to remit use taxes collected on behalf of its customers by the due date specified in the agreement shall be subject to the interest and penalties provided for persons required to collect sales tax under chapter 219 of the general statutes. (c) Any agreement entered into under subsection (a) of this section may provide that the contractor and its affiliates shall collect the use tax only on items that are subject to the six per cent rate of tax. (d) For purposes of this section, "affiliate" means any person, as defined in section 12-1 of the general statutes, that controls, is controlled by, or is under common control with another person. A person controls another person if the person owns, directly or indirectly, more than ten per cent of the voting securities of the other person. For purposes of this subsection, "voting security" means a security that confers upon the holder the right to vote for the election of members of the board of directors or similar governing body of the business, or that is convertible into, or entitles the holder to receive, upon its exercise, a security that confers such a right to vote. "Voting security" includes a general partnership interest. (PA 03-01 Sec.105)

Saving Clause

30. The Contractor shall not be liable for losses or delays in the fulfillment of the terms of the contract due to wars, acts of public enemies, strikes, fires, floods, acts of God or any other acts not within the control of or reasonably prevented by the

Standard Bid and Contract Terms and Conditions - Page 3 of 4

Contractor. The Contractor will give written notice of the cause and probable duration of any such delay.

Advertising

31. Contractors may not reference sales to the State for advertising and promotional purposes without the prior approval of Procurement Services.

Rights

32. The State has sole and exclusive right and title to all printed material produced for the State and the contractor shall not copyright the printed matter produced under the contract.

33. The Contractor assigns to the State all rights title and interests in and to all causes of action it may have under Section 4 of the Clayton Act, 15 USC 15, or under Chapter 624 of the general statutes. This assignment occurs when the Contractor is awarded the contract.

33. Contractor agrees that it is in compliance with all applicable federal, state and local laws and regulations, including but not limited to Connecticut General Statutes Sections 4a-60 and 4a-60a. The Contractor also agrees that it will hold the State harmless and indemnify the State from any action which may arise out of any act by the contractor concerning lack of compliance with these laws and regulations.

34. All purchases will be in compliance with Section 22a-194 to Section 22a-194g of the Connecticut General Statutes related to product packaging. This contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill promulgated June 16, 1971, the provisions of Executive Order No. Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973 and section 16 of P.A. 91-58 nondiscrimination regarding sexual orientation, and the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999 regarding Violence in the Workplace Prevention Policy.

Standard Bid and Contract Terms and Conditions - Page 4 of 4

Records, Files, and Information

35. The contract resulting from the ITB is subject to the provisions of §1-218 of the Connecticut General Statutes, as it may be modified from time to time. In accordance with this section, each contract in excess of two million five hundred thousand dollars between a public agency and a person for the performance of a governmental function shall (1) provide that the public agency is entitled to receive a copy of records and files related to the performance of the governmental function, and (2) indicate that such records and files are subject to the Freedom of Information Act and may be disclosed by the public agency pursuant to the Freedom of Information Act. No request to inspect or copy such records or files shall be valid unless the request is made to the public agency in accordance with the Freedom of Information Act. Any complaint by a person who is denied the right to inspect or copy such records or files shall be brought to the Freedom of Information Commission in accordance with the provisions of sections 1-205 and 1-206 of the Connecticut General Statutes.

36. Incorporated by reference into this contract is Section 4-61dd(g)(1) and 4-61dd(3) and (f) of the Connecticut General Statutes which prohibits contractors from taking adverse action against employees who disclosed information to the Auditors of Public Accounts or the Attorney General.

Health Insurance Portability and Accountability Act (HIPAA)

37. Under the Health Insurance Portability and Accountability Act (HIPAA) of 1996, Bidders are expected to adhere to the same standards as the state agency/covered entity as to Protected Health Information (PHI), to maintain compliance with Title 45 CFR Part 164.504, Uses and Disclosures: Organizational Requirements, Bidder Contracts. Protected Health Information (PHI) includes information related to claims, health services, federal and state tax information, financials, criminal/court related information and other personally identifiable records. Bidder agrees that

it shall be prohibited from using or disclosing the PHI provided or made available by the state agency/covered entity or viewed while on the premises for any purpose other than as expressly permitted or required by this Contract. These uses and disclosures must be within the scope of the Bidder's services provided to the state agency/covered entity. Bidders shall establish and maintain reasonable safeguards to prevent any use or disclosure of the PHI, other than as specified in this Contract or required by law. Bidder agrees that anytime PHI is provided or made available to any subcontractors or agents, Bidder must enter into a subcontract, which contains the same terms, conditions and restrictions on the use and disclosure of PHI as contained in this Contract. Bidder agrees to make available and provide a right of access to PHI by the individual for whom the information was created and disclosed. Bidder agrees to make information available as required to provide an accounting of disclosures. Bidder agrees to make its internal practices, books, and records relating to the use or disclosure of PHI received from, or created or received by Bidder on behalf of the state agency/covered entity, available to the Secretary of Health and Human Services (HHS) for purposes of determining compliance with the HHS Privacy Regulations. At termination of this Contract, Bidder agrees to return or destroy all PHI received from, or created by the state agency/covered entity. If not feasible, extend the protections of this agreement to the PHI and limit further uses and disclosures. Bidder will have procedures in place for mitigating any harmful effects from the use or disclosure of PHI in a manner contrary to this Contract or the HHS Privacy Regulations. Bidder must develop and implement a system of sanctions for any employee, subcontractor or agent who violates this Contract or the HHS Privacy Regulations. The PHI shall be and remain the resources of the state agency/covered entity. Bidder agrees that it acquires no title or rights to the information, including any de-identified information, as a result of this Contract. Bidder agrees that the state agency/covered entity has the right to immediately terminate this Contract if the state agency/covered entity determines that Bidder has violated a material term of this HIPAA Compliance Agreement above.



STATE OF CONNECTICUT

DEPARTMENT OF REVENUE SERVICES



RECEIVED
APR 19 2006

DEPT. OF ENVIRONMENTAL PROTECTION
FINANCIAL AND SUPPORT SERVICES

Peter Kukiel
Department of Environmental Protection
79 Elm St.
Hartford, CT 06106

Dear Colleague:

I am pleased to provide your agency with a Connecticut State Agency Tax Exemption Number. This certificate issued by the Department of Revenue Services (DRS) will serve as evidence that your agency is exempt from Connecticut sales and use taxes on the purchase or lease of tangible personal property and services, except for meals and lodging. Qualifying state agencies still must get advance DRS approval for sales and use tax exemptions for meals and lodging.

Tax Exemption Numbers are issued only to Connecticut state agencies. DRS does not assign tax exempt numbers to agencies of the United States government or to municipalities or their agencies.

DRS issues Tax Exemption Numbers to state government agencies to verify the agency's tax-exempt status when making purchases. Use your Tax Exemption Number when completing CERT-134, *Exempt Purchases by Qualifying Governmental Agencies*.

For information on the Tax Exemption Number policy, please see Policy Statement 2006(4), *Tax Exemption Purchases by Connecticut State Agencies*, on the DRS web site at www.ct.gov/DRS or call the DRS Taxpayer Services Division at 860-297-5962. As always, I welcome your comments and suggestions. Feel free to e-mail DRS at drs@po.state.ct.us

Sincerely,

Pam Law, Commissioner

OR-295 (Rev. 2/06)

OR-295 (Rev. 2/06)

NOT TRANSFERABLE or ASSIGNABLE

STATE OF CONNECTICUT
DEPARTMENT OF REVENUE SERVICES
25 Sigourney Street, Hartford CT 06106-5032

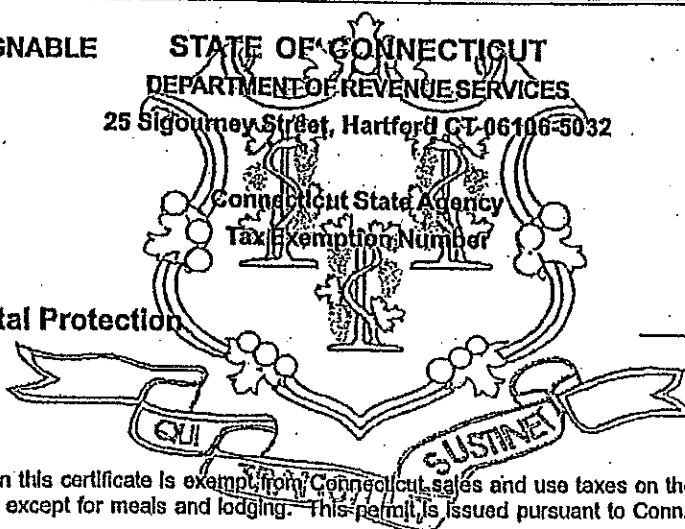
06-6000798 DEP43000

Tax Exemption Number

April 12, 2006

Date Issued

Peter Kukiel
Department of Environmental Protection
79 Elm St.
Hartford, CT 06106



Commissioner



The Connecticut State Agency named on this certificate is exempt from Connecticut sales and use taxes on the purchase or lease of tangible personal property and services, except for meals and lodging. This permit is issued pursuant to Conn. Gen. Stat. §12-412(1)(A).

Request for Taxpayer Identification Number and Certification

Give form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

Name	
Business name, if different from above	
Check appropriate box: ☐ Individual/ Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ▶	☐ Exempt from backup withholding
Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code	
List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see **How to get a TIN** on page 3.

Note: If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number								
or								
Employer identification number								

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign
Here

Signature of
U.S. person ▶

Date ▶

Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

U.S. person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee.

Note: If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Foreign person. If you are a foreign person, use the appropriate Form W-8 (see **Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities**).

Nonresident alien who becomes a resident alien.

Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the recipient has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

STATE OF CONNECTICUT - AGENCY VENDOR FORM

SP-26NB New 3/03

IMPORTANT: ALL parts of this form must be completed, signed and returned by the vendor.

READ & COMPLETE CAREFULLY

COMPLETE LEGAL BUSINESS NAME		Type of ID #: ☐ SSN ☐ FEIN	
BUSINESS NAME, TRADE NAME, DOING BUSINESS AS (IF DIFFERENT FROM ABOVE)			
Write/Type SSN/FEIN NUMBER ABOVE			
BUSINESS ENTITY: ☐ CORPORATION ☐ LLC CORPORATION ☐ LLC PARTNERSHIP ☐ LLC SINGLE MEMBER ENTITY ☐ NON-PROFIT ☐ PARTNERSHIP ☐ INDIVIDUAL/SOLE PROPRIETORSHIP			
NOTE: IF INDIVIDUAL/SOLE PROPRIETOR, INDIVIDUAL'S NAME (AS OWNER) MUST APPEAR IN THE LEGAL BUSINESS NAME BLOCK ABOVE.			
BUSINESS TYPE: A. SALE OF COMMODITIES B. MEDICAL SERVICES C. ATTORNEY FEES D. RENTAL OF PROPERTY (REAL ESTATE & EQUIPMENT)			
E. OTHER (DESCRIBE IN DETAIL)			
UNDER THIS TIN, WHAT IS THE PRIMARY TYPE OF BUSINESS YOU PROVIDE TO THE STATE? (ENTER LETTER FROM ABOVE) ^			
UNDER THIS TIN, WHAT OTHER TYPES OF BUSINESS MIGHT YOU PROVIDE TO THE STATE? (ENTER LETTER FROM ABOVE) ^			
NOTE: IF YOUR BUSINESS IS A PARTNERSHIP, YOU MUST ATTACH THE NAMES AND TITLES OF ALL PARTNERS TO YOUR BID SUBMISSION.			
NOTE: IF YOUR BUSINESS IS A CORPORATION, IN WHICH STATE ARE YOU INCORPORATED?			
VENDOR ADDRESS		STREET	CITY STATE ZIP CODE
Add Additional Business Address & Contact Information on back of this form.			
VENDOR E-MAIL ADDRESS		VENDOR WEB SITE	
REMITTANCE INFORMATION: INDICATE BELOW THE REMITTANCE ADDRESS OF YOUR BUSINESS. ☐ SAME AS VENDOR ADDRESS ABOVE.			
REMIT ADDRESS		STREET	CITY STATE ZIP CODE
CONTACT INFORMATION: NAME (TYPE OR PRINT)			
1ST BUSINESS PHONE:		Ext. #	HOME PHONE:
2ND BUSINESS PHONE:		Ext. #	1 ST PAGER:
CELLULAR:			2 ND PAGER:
1ST FAX LINE:			TOLL FREE PHONE:
2ND FAX LINE:			TELEX:
WRITTEN SIGNATURE OF PERSON AUTHORIZED TO SIGN ON BEHALF OF THE ABOVE NAMED VENDOR			DATE EXECUTED
← SIGN HERE			
TYPE OR PRINT NAME OF AUTHORIZED PERSON		TITLE OF AUTHORIZED PERSON	
IS YOUR BUSINESS CURRENTLY A DAS CERTIFIED SMALL BUSINESS ENTERPRISE? ☐ YES (ATTACH CERTIFICATE COPY TO BID) ☐ NO			
IF YOU ARE A STATE EMPLOYEE, INDICATE YOUR POSITION, AGENCY & AGENCY ADDRESS			
FOR PURCHASE ORDER DISTRIBUTION: 1) CHECK ONLY ONE BOX BELOW 2) INPUT E-MAIL ADDRESS OR FAX # (IF CHECKED)			
☐ E-MAIL		☐ FAX	☐ USPS MAIL ☐ EDI
If EDI was selected, give us a person to contact in your company to set up EDI:			
NAME:			
E-MAIL ADDRESS:			
TELEPHONE NUMBER:			
FOR REQUEST FOR QUOTATION (RFQ) DISTRIBUTION: 1) CHECK ONLY ONE BOX BELOW 2) INPUT E-MAIL ADDRESS OR FAX # (IF CHECKED)			
☐ E-MAIL		☐ FAX	☐ USPS MAIL
ADD FURTHER BUSINESS ADDRESS, E-MAIL & CONTACT INFORMATION ON SEPARATE SHEET IF REQUIRED			

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Monitoring
Receivers**

[VR2W](#)

[VR2W Underwater
Upload Cable NEW!](#)

[VR3-UWM](#)

[VUE Software](#)

Tracking Receivers

[VR2B](#)

[VR100](#)

Positioning Systems

[VPS NEW!](#)

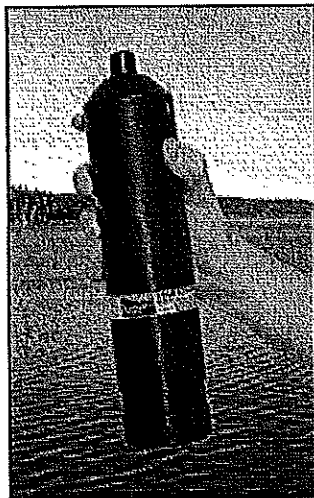
[VRAP](#)

Hydrophones

Data Loggers

VR2W Single Channel Receiver

Now with *Bluetooth*® Wireless Technology for
Significantly Faster Uploads



The VR2W was designed using the same proven and reliable technology you've come to know and trust in the VR2. And like the VR2, the VR2W is affordable, compact, easy to use, long-lasting and flexible, making it ideal for marine research projects ranging from small river monitoring to multi-researcher, multi-tracking operations in large oceanic systems. Now with the new VR2W, VEMCO has taken the VR2 and made it even better! The VR2W uses Bluetooth® wireless technology for significantly faster data upload speed. After retrieving your VR2Ws from the water, you can upload data **20 times faster than the VR2 and from up to 7 receivers simultaneously.**

The VR2W also uses greatly enhanced PC Software. The new VEMCO User Environment (VUE) PC Software for initialization, configuration and data upload from VEMCO receivers allows users to combine data from multiple receivers of varying types into a single integrated database.

The VR2W Comm Package Includes everything you need to talk to your VR2W:

- VUE software
- Software manual
- Two VR2W Comm Keys
- Adapter for USB to *Bluetooth*® wireless technology

System requirements for the VR2W include the VEMCO User Environment (VUE) software and Windows XP SP2. Choose one of the following links for more detailed information on VUE software or to download the VR2W product datasheet and the VR2W user manual:

- [VR2W Product Datasheet](#)
- [VR2W User Manual](#)
- [VUE Software Page](#)

For a limited time only, you can upgrade your VR2 to the new VR2W for a special introductory offer. Get faster uploads now! **Contact VEMCO** for details.

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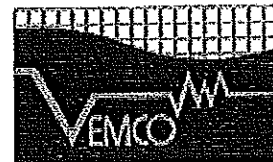
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[To Top Of Page](#)

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VR2W Single Channel Receiver



A division of AMIRIX

Now with *Bluetooth®* Wireless Technology for Significantly Faster Data Upload *Bluetooth®*

The VR2W was designed using the same proven and reliable technology you've come to know and trust in the VR2. And like the VR2, the VR2W is affordable, compact, easy to use, long-lasting and flexible, making it ideal for marine research projects ranging from small river monitoring to multi-researcher, multi-tracking operations in large oceanic systems.

Now with the new VR2W, VEMCO has taken the VR2 and made it even better!

- ▶ Significantly faster upload speed using *Bluetooth®* wireless technology - after retrieving your VR2Ws, you can upload data 20 times faster than the VR2 and from up to 7 receivers simultaneously
- ▶ Increased data storage capability - 8 MBytes (1-million detections), 4 times that of the VR2
- ▶ Field upgradable design allows the VR2W unit to be upgraded in the field with future coding scheme enhancements
- ▶ Safer, more robust data storage capability - the VR2W always retains every detection in



non-volatile memory so all data is saved even if the unit unexpectedly falls

- ▶ Fully compatible with all existing VR2 receivers

Upgrade your existing VR2 now with our special limited time offer!

Call for details.

The VR2W uses greatly enhanced PC Software!

The new VEMCO User Environment (VUE) PC Software for initialization, configuration and data upload from VEMCO receivers allows users to combine data from multiple receivers of varying types into a single integrated database.



The VR2W Comm Package includes everything you need to talk to your VR2W:

- ▶ VUE software
- ▶ Software manual
- ▶ Two VR2W Comm Keys
- ▶ Adapter for USB to *Bluetooth®* wireless technology

VUE will work with both VR2W and VR2 receivers and requires Windows XP SP2 or VISTA operating system. See VEMCO's website for more details on VUE.

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The VR2W from VEMCO is a flexible, cost effective receiver for remote monitoring

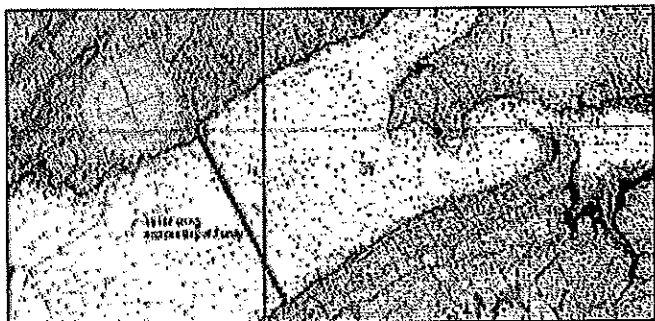
The VR2W submersible, single channel receiver with *Bluetooth*® wireless technology is capable of identifying VEMCO coded transmitters. It provides marine biologists with a flexible and reliable means of recording fish telemetry data.

Simple to Use. The VR2W records the identification number and time stamp from acoustic transmitters as a tagged animal travels within receiver range. Depth, temperature and other sensor data can also be collected. After removing your VR2Ws from the water, data is downloaded quickly and easily in the field without opening the case by using your PC with *Bluetooth*® wireless technology. The VR2W system uses new VUE software that is compatible with Windows XP SP2 operating system.

Compact. The VR2W consists of a hydrophone, receiver, ID detector, data logging memory, and battery all housed in a submersible case. The VR2W receiver's plastic high pressure case is lightweight and has a depth rating of 500 meters. The VR2W is easily moored or hidden underwater by a diver and can also be set up with an acoustic release system for highly inaccessible locations.

Proven Technology. The device has been used successfully in several studies including:

- ▶ The Pacific Ocean Shelf Tracking Project (POST) monitors the movement of marine animals through an array of listening stations set along the west coast of North America.
- ▶ Network of 250 receivers in the Bay of Fundy tracking the migratory patterns of several salmon groups.
- ▶ Ocean cod tracking off Nova Scotia using an array of 70 receivers.
- ▶ Fish passage monitoring at Tees River Barrage, UK.
- ▶ Endangered Giant Sea Bass monitoring off California.
- ▶ Lingcod site residency monitoring off Alaska.
- ▶ Monitoring of sturgeon, sharks and grouper species.



VR2W Specifications	
Dimensions	308 mm long x 73 mm diameter
Weight	1450 g in air, 170 g in water
Power supply	1 - 3.6 V Lithium D cell battery
Battery life	Approximately 15 months
Maximum depth	500 metres
Receive frequency	69 kHz standard
Memory	8 MB flash memory, 1-million detections
Attachment	Standard: Cable ties Optional: Mounting kit

Flexible. The VR2W is ideal for acoustic telemetry projects ranging from small river monitoring to multi-researcher, multi-species tracking operations in large coastal areas. The receiver is effective at detecting all VEMCO 69 kHz tags including miniature and medium sized tags enabling a researcher to track a wide variety of fish species with the same receiver array.

Long Field Life. The low current draw VR2W will last up to 15 months on a Lithium D battery. Because non-volatile memory is used, the data remains intact even with the loss of battery power. Coded transmitters used with the VR2W enable researchers to conduct longer term studies. Many transmitters last several years giving the researcher the benefit of collecting many years of behavioural data from the same animal.

Unique IDs and Worldwide Compatibility. VEMCO can provide over 192,000 unique ID'd tags (both pingers and sensor transmitters) compatible with all VEMCO receivers (VR2Ws, VR2s, VR100, etc). This allows researchers to collaborate and share tracking infrastructure the world over. VEMCO tags come in a variety of sizes, V7 to V16 with many long life options and output power levels.

For more information on the specific applications of VR2W technology or for technical details, contact VEMCO.



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Search

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Coded Transmitters

Transmitters

[Coded Tags](#)[V7](#)[V9](#)[V9AP](#)[V13](#)[V16](#)[Continuous Tags](#)[Experimental Tags](#)[Size Comparison](#)

Receivers

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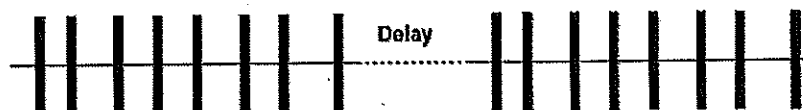
VEMCO coded transmitters use a single frequency, 69 kHz, coding scheme called R64K¹. By using a single frequency approach, VEMCO has been able to provide a family of low cost, long life submersible receivers and compatible long life tags. The single frequency approach allows all VEMCO receivers to detect all VEMCO tags enabling researchers to share equipment and data the world over.

VEMCO coded tags come in a variety of sizes, power outputs, battery life and sensor options. The following table provides a quick comparison of what's available to help you choose the most appropriate tags for your study. For more details on options available, click on the links in the table below to see the individual datasheets for each tag family.

Tag Family	Diameter	Minimum Size: Length (mm), Weight in Water (g)	Maximum Size: Length (mm), Weight in Water (g)	Power Output (dB)	Sensors: T-Temp P-Pressure (depth)	Battery Life ² (90 second Delay ³)
V7	7 mm	18 mm, 0.7 g	22.5 mm, 1.0 g	136	None	200 days
V9	9 mm	21 mm, 1.6 g	46 mm, 3.5 g	142-150	T,P,TP	400 days
V13	13 mm	36 mm, 6 g	45 mm, 6 g	147-158	T,P,TP	900 days
V16	16 mm	54 mm, 9 g	98 mm, 16 g	150-165	T,P,TP	10 years

R64K Coding

Coded tags emit a series of pings called a pulse train which contains ID and error checking information. This allows the user to individually track multiple fish. Currently, this coding scheme supports up to 192,000 unique IDs. The time between pulse trains is varied randomly about a nominal point and can be 10s of seconds to multiple minutes long. The off time, or Delay as it is called, is required to ensure that other transmitters have a chance to be detected by the receivers. The R64K pulse train contains eight pulses, making seven periods between pulses. After the Delay is completed, the cycle repeats. An example is shown below.



Collisions and Selecting the Delay

"Collisions" happen when two or more tags transmit all or part of their pulse train at the same time. When this happens, the pings overlap and neither transmission can be detected by the receiver. Although collisions are inevitable, tag Delay is randomized eliminate the possibility of any two tags continuously colliding with each other. Assuming the Delays are set long enough and the fish stay in range for a long enough period of time,

randomization of Delay ensures that the receiver will eventually detect all the tags. Therefore the Delay choice is critical to the success of a study and should be chosen to optimize performance based on the maximum number of fish expected to be resident around the receiver at one time. We encourage users to choose the longest Delay time acceptable to their study as a longer Delay period will result in fewer collisions. As well, a longer Delay will provide substantially longer battery life for the tag allowing for longer study periods. In some cases, multiple years is possible. The table below shows expected time to detect multiple tags for varying numbers of tags present within the detection range of the receiver and selected Delay times.

Time Required to Detect Coded Transmitters When They Are Present at the Same Receiver						
Number of R64K Coded Pingers Present	Average Delay between Code Transmissions (seconds)					
	30	60	90	120	240	300
	Time Required to Detect 100% of Pingers Present ⁴ (minutes)					
1	1	1	2	2	4	5
2	2	2	3	4	8	5
4	3	4	5	6	12	10
8	11	9	9	10	12	15
12	30	16	15	14	20	20
15	61	24	20	20	20	25
20	194	45	32	28	28	30
25	-	83	50	40	36	35
30	-	150	75	56	44	45

Optional Dormancy Periods

VEMCO coded tags can be programmed with preset dormancy periods. During dormancy, the transmitter goes to sleep to conserve power and is scheduled to turn back on at a later date. This feature has enabled scientists to study the behaviour of young fish in rivers and estuaries and then continue to study the same fish several years later when they returned to the river to spawn. The tags are capable of being programmed with multiple on/off phases.

Options like dormancy periods are possible due to advanced processing capabilities existing in VEMCO coded tags. Other custom variations can be considered as well. Please contact the VEMCO sales team to discuss your specific needs.

Sensor Tags and S64K Coding

VEMCO coded tags are also available with sensor options. Our standard products are available with temperature and/or pressure sensors for most sized tags. VEMCO is also continually working with researchers to uncover other useful sensor technologies and integrating them into our transmitters. For information on current developments with environmental and physiological sensors please see our **Experimental Transmitters page**.

Sensor tags use a variant of the R64K coding scheme, called S64K. S64K combines the previous S256 coding with R64K coding to allow us to provide many thousands of uniquely coded sensor tags. With S64K coding, the transmitter emits a pulse train containing an ID code between 1 and 256 followed by 8 bits of sensor data. Then the transmitter emits a R64K pulse which contains a unique ID used to identify the tag. The researcher will use the two IDs to map the sensor data to a particular tag. See the **FAQ on S64K coding** for an explanation of how this works.

¹ R64K replaces previous coding schemes R256 and R04K. These became obsolete as they no longer

provide a sufficient number of ID codes. See the article on Unique ID Codes in VEMCO's October 2006 Newsletter article for more information.

² Battery life will be lengthened or shortened depending on various options chosen.

³ Coded tag Delay is defined as the time between pulse trains emitted by the transmitter. This value varies randomly +/- 50% about the nominal value.

⁴ 100% of pingers present, 95 times out of 100.

[To Top Of Page](#)

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